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"Sea Fog as an Enemy of Fishermen and Seamen", P. 2. (GAZETA OBSFRWATORA, Vol. 7, No. 5, May 1954, Warszawa, Folend)

SO: Monthly List of East European Accessions, (EFAL), LC, Vol. 4, No. 1, Jan. 1955, Uncl.

"APPROVED FOR RELEASE: Tuesday, August 01, 2000

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"Lake Michvie", P. 5, (TURYCTA, No. 8, August 1954, Warsew, Folland)

SC: Monthly List of East Furopean Accessions (FTAL), LC, Vol. 4, No. 3, Narch 1955, Uncl.

PRAWDZIC-LIYMAN, K.
"Influence of climate on man's economy." p. 10. (Gazeta Obserwatora, Vol. 6, no. 7, July 1953. Warszawa.)

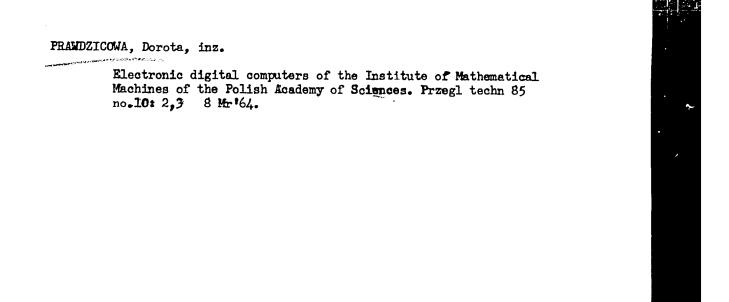
SO: Monthly Idst of East European Accessions, Vol. 3, No. 2, Library of Congr ss, February 1954, Uncl.

PRANDZIC-LAYMAN, K.

"Currents of the sea." p. 2. (Gazeta Obserwatora. Vol. 5, no. 10, Oct. 1952.
Warszawa.)

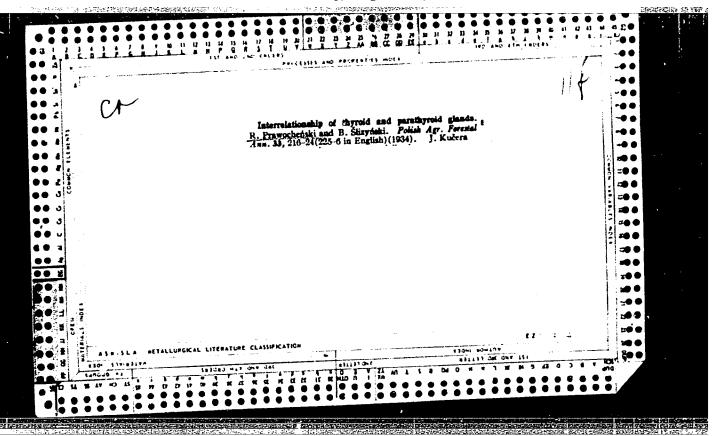
So: Monthly List of East European Accessions. Vol. 3, No. 2, Library of Congress,
February 1954, Uncl.

THE THE PROPERTY OF THE PROPERTY SEEDS AND A SECOND SECOND



PRAWOCHENSKI, R.

Nature of viruses and bacteria: discussion on Polguszyn's article published in Przeglad hodowlany. Mod.wet. 7 no.3:179-180 Mar 1951. (CIML 20:9)



PRAYNING, 0.

Production of high temperatures (up to 55,000°) in laboratory conditions. (From: Oesterreichichsche Chemiker Zeitung 55, no.5/6 March '54.) Usp. fiz. nauk 55 no.4:595-608 '55 (MIRA 8:6)

(Pyrometry) (Temperature) (Electric arc)

PRAYNING, O. USSR/Physics - High temperature measurements Card 1/2 Pub. 118 - 3/3 Authors Prayning, 0. General remarks concerning the concept of high temperatures and Title their measurement • Usp. fiz. nauk 55/4, 595-608, Apr 1955 Periodical Abstract In connection with a possibility of obtaining very-high temperatures (up to 55,0000) under laboratory conditions, a new concept on the temperature (as an amount of kinetic energy of molecules) is presented. Methods of obtaining such temperatures and devices of their measurement are discussed. Five methods are analyzed: four are considered as methods by which high temperatures can be obtained only for a short time - they are: nuclear reactions, explosions, explosions of wires by an electric current, and superpowered sparks. The fifth method - a super powered ark (Gerdier's Institution Submitted

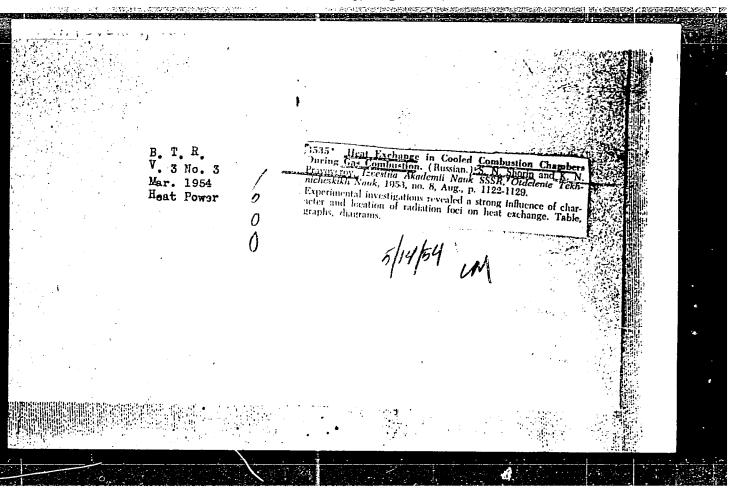
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Periodical

: Usp. fiz. nauk 55/4, 595-608, Apr 1955

Abstract

for example), is considered as a method of obtaining high temperatures for an extended period. As to methods of measuring such temperatures - the spectrographic method, together with mathematical calculations of the width of the spectral line produced by ionized oxygen atoms, is considered as the most reliable one. Twenty German references (1924-1935). Diagrams; illustration. (The article is a translation from the German into the Russian).



BENUA, F.F.; DUKOR, Z.G.; KLYUSHENKOV, I.S.; KONSTANTINOV, V.P.;

KATLER, A.I.; MAYKOV, N.K.; PRAYSMAN, A.D.; SERGEYEV, V.I.;

TRUFANCV, V.G.; FEDCROV, V.F.; FRAMIN, S.R.; CHERTKOV, E.L.;

SHIBANOV, B.V.; VATASHKINA, S.A., red.izd-va; CHERNOV, M.I.,

red.; BODROVA, V.A., tekhn. red.

[Handbook on ship repairs in two volumes] Spravochnik po

remontu sudov v dvukh tomakh. Pod obshchei red. M.I.Chernova.

Moskva, Izd-vo "Rechnoi transport." Vol.2. 1963. 600 p.

(Ships--Maintenance and repair) (MIRA 16:9)

PRAYSMAN, N.Ya. (Provograd)

Some remarks on the chapter "Approximate computation" in the arithmetic textbook. Mat. v shkole no.4:40-41 Jl-Ag '61.

(MIRA 14:8)

(Approximate computation—Study and teaching)

KIPNIS, I. M. (Kirovograd); PRAYSMAN, N. Ya. (Kirovograd)

High standard of approximate computation in physics lessons.
Fiz. v shkole 22 no.4:55-58 J1-Ag '62. (MIRA 15:10)

(Physics-Study and teaching)
(Approximate computation)

CZECHOSLOVAKIA/Chemical Technology - Chemical Products and

Their Application. Cellulose and Cellulose

Products. Paper.

Abs Jour : Ref Zhur - Khimiya, No 2, 1958, 6587

Author : Prazak
Inst :

Title : Production of Cellulose from Chemically Barked Wood.

Orig Pub : Papir a celulosa, 1957, 12, No 5, 100-102

Abstract : It was established that wood barked by use of As com-

pounds contains a negligible amount of As, which has no

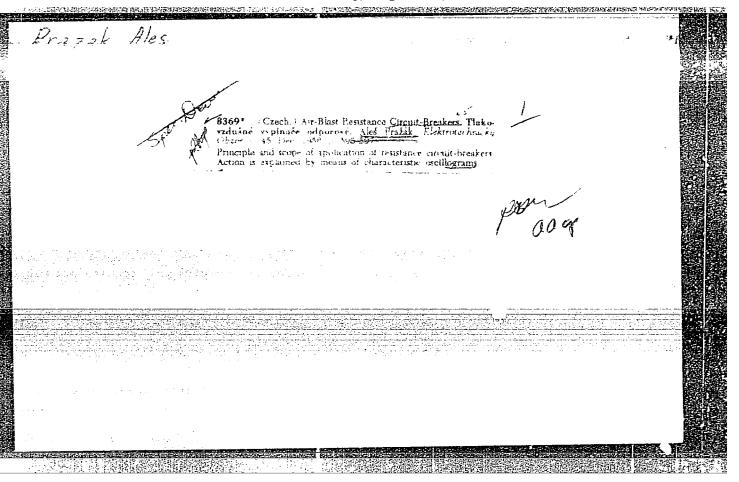
influence on cellulose production.

Card 1/1

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Pyeloscopy with verography in renal and urinary tumors. Cesk.rentg.
9 no.4:157-159 Nov 55.

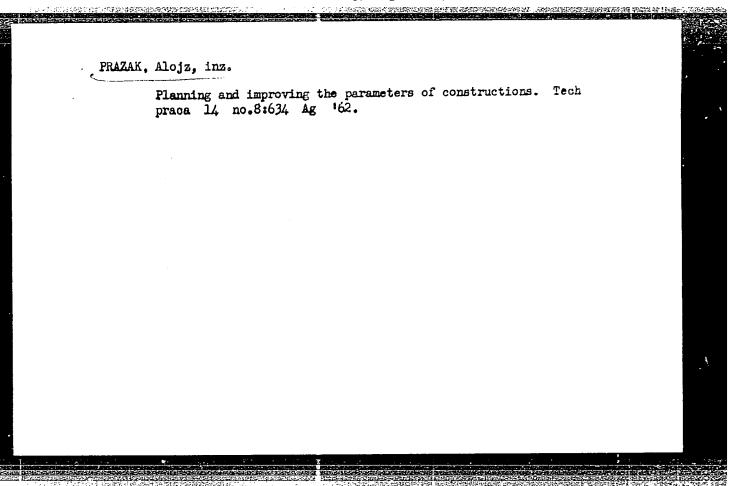
1. Rtg Oddel. a chir. oddel. OUNZ Tabor
(URINARY TRACT, neoplasms,
diag., serioscopic pyelography)



PRAZAK, A.

Pneumatic resistance switches for high-voltage condensers. (Supplement) p. 33. (Energetika, Vol. 6, no. 6, June 1956. Praha, Czechoslovakia)

SO: Monthly List of East European Accessions. (EEAL) LC. Vol. 6, No. 6, June 1957. Uncl.



FRAZAK, Ales, inz. (Brno I, Lerchova 37)

Adaptation of pneumatic breakers to resistance breakers.
Energetika Gz 12 no.10:558-559 0'62.

1. Zavody Julia Fucika, Brno.

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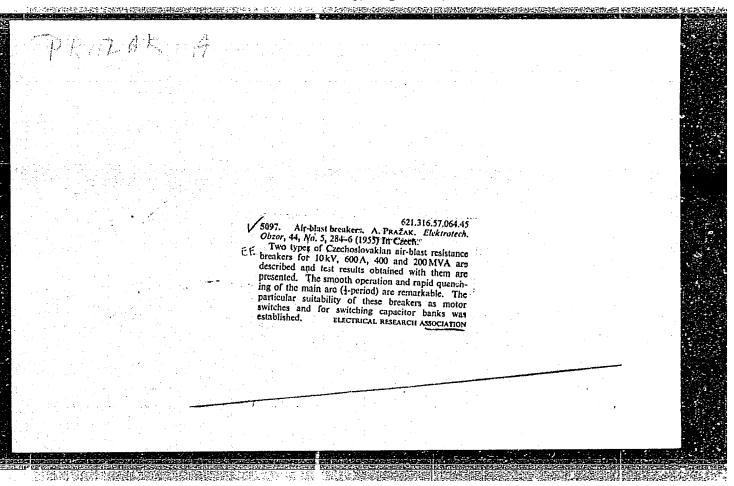
PRAZAK, A. Air-blast resistance circuit breakers. p. 595.

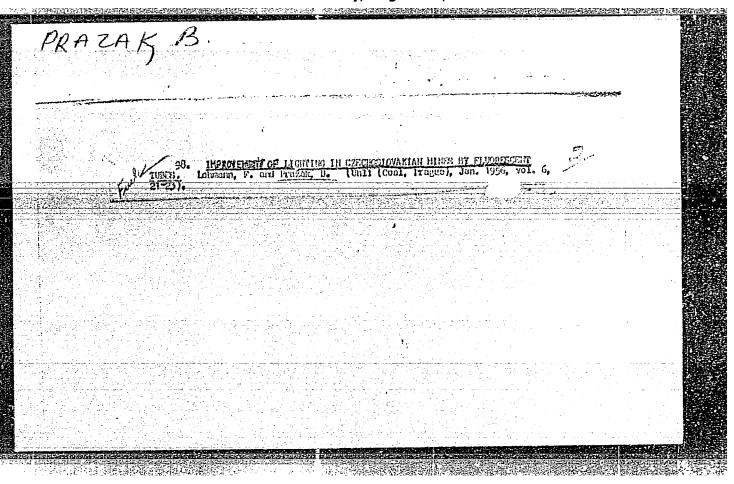
Vol. 45, no. 12, Dec. 1956 ELEKTROTECHNICKY CBZCR TECHNOLOGY Czechoslovakia

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(ELEKTROTECHNICKI STZUR, vol. AA, no. 5, May 1955, Frank)

30: Monthly List of East European Accession, (ELAL), LC, Vol. A, No. 11, Nov. 1955, Uncl.





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Prazak, J. Analysis of the production process of economic point of view. p. lh.

Vol. 35, nol 1, Jan. 1957 STAVIVO TECHNOLOGY Czechoslovakia

So. East European Accessions, Vol. 6, May 1957

PRAZAK, Jan Foreign bodies manetrating into uninary bladder from the surrounding areas. Roshl. chir. 36 no.5:320-325 May 59. 1. Unolowicke oddeleni statni fabrithi nemocnice ARN: v Plani, prednosta unim, Dr Jan Pracak. (**NATURE**, foreign bodies penetration from surrounding areas (CZ))

AXMANN, K. Dr.; PRAZAK, J. Dr.

**Poreign body in the posterior urethra in male; case rockin. 36 no.5:329-330 May 57.

1. Central rig odd, prednosta prim Dr Bores Chir. odd no., prednosta wrim Dr Prazak.

(URETHRA, foreign bodies posterior urethra in reale (Gz))

5-audiou

PRAŽÁK, J; FILSAKOVÁ, E., Dr; PANOŠ, J; ROTREKL, V; UHEAK, J.

Czechoslovakia

First Internal Clinic FDL (I. vnitřní klinika FDL);
Director: Prof Vlad. JEDLIČKA, Dr. Sc;
Second Internal Clinic FDL (II. vnitřní klinika
FDL); Director: Dr. Richard FOIT, Dr. Sc;
FDL); Director: Dr. Richard FOIT, Dr. Sc;
X-Ray Department of the Faculty Hospital Pod
Yetřinem (Rentgenové odd. fak. nemocnice Pod
Petřinem -- Pod Petřinem); Director E. FIISAKOVÁ, Dr.
- (for all)

Prague, Vnitřní lékařství, No XI-1, 1963, pp 60-62

"The Problem of Miliary so-called Influenzal Bronchopneumonia."

(5)

ROTREKL, V; FILSAKOVÁ, E; FRAŽÁK, J; ULBAN, J; KUGLERIVÁ, N.

Czechoslovakia

Pirst Internal Clinic FDL (I. vnitřní klinika FDL);
Director: prof. Dr. Vlad, JEDLIČKA, Dr. Sc;
X-Rey Department of the Faculty Hospital Pod
Petrinem (Rentzerová oddělení tak. nemocnice
Pod Petřínem -- Pod Petřínem); Director: E.
FILSAKOVÁ, Dr. - (for all)

Prague, Vnitřní lókařství, No IX-1, 1963, pp 64-68

"Staphylococcal Infection Accompanying Pneumonia
During the Influenza Epidemic of 1959."

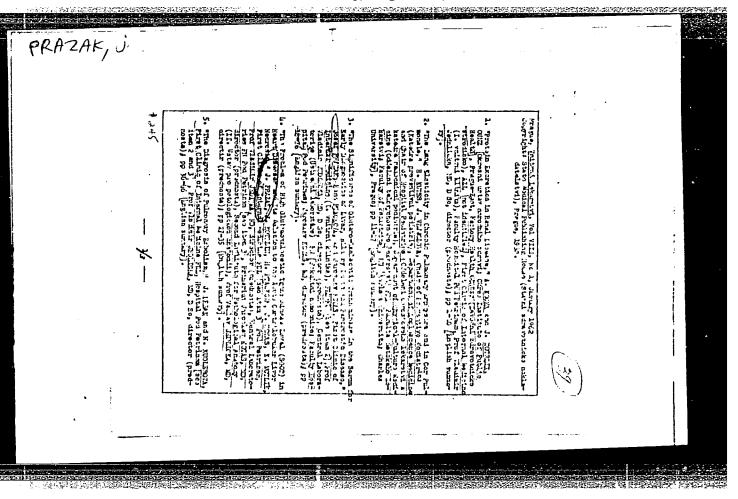
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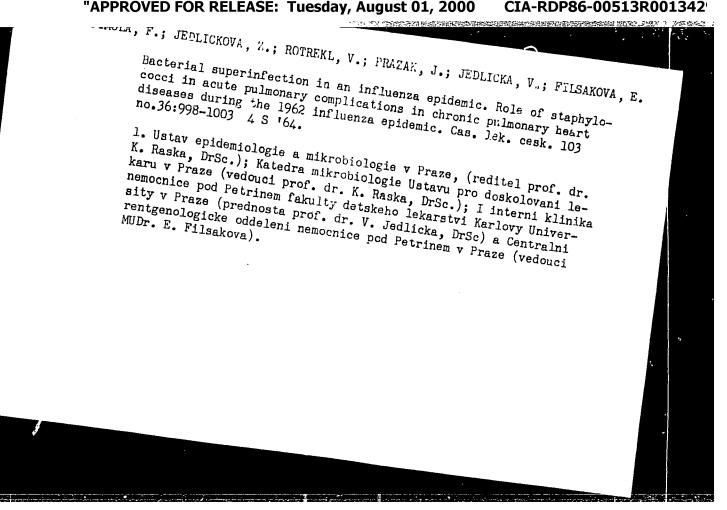
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Severe hemorrhage from duodenal ulcer. Cas.lek.cesk. 98 no.49/50: 1532-1537 4 D '59.

1. IV. interni klimka fakulty vseobecneho lekarstvi v Praze, prednosta prof.dr. Mojmir Fucik.

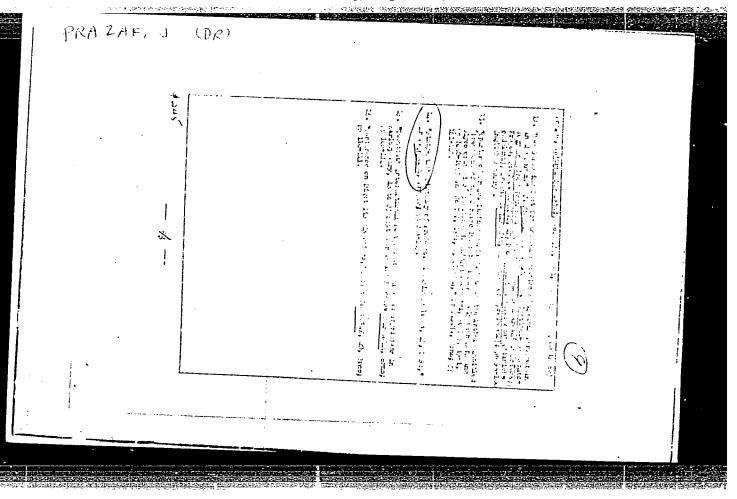
(PEPTIC UICER HEMORRHAGE)





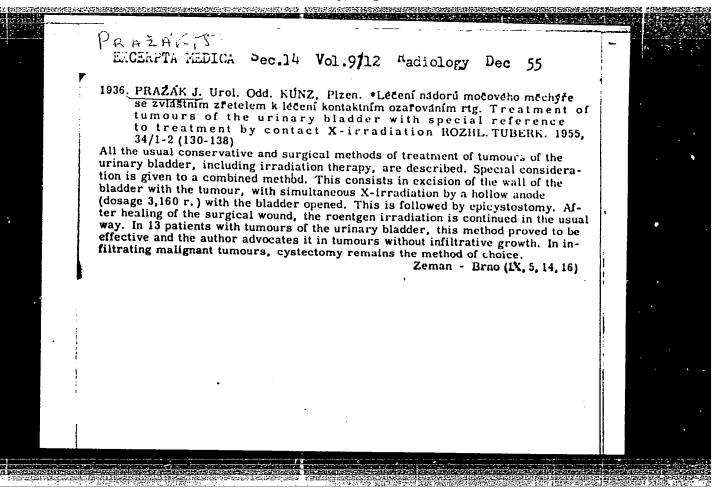
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PRAZAK, J.; FILSAKOVA, E.; URBAN, J.; ROTREKL, V.; KOTRLIK, J.; KUGLEROVA, N. Broncho-pulmonary manifestations of influenza. Cas.lek.cesk. 99 no.47:1480-1484 18 N '60.

1. I. interni klinika FDL KU, prednosta prof. dr. VI. Jedlicka, doktor lekarskych ved. Rtg oddeleni OUNZ Praha 1, nemocnice Pod Petrinem, primarka dr. E. Filsakova. (INFLUENZA compl)



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Modern diagnosis in gastroenterology. Cas.lek.cesk 101 no.2:8-12 5 Ja *62.

1. IV interni klinika KU v Praze, prednosta prof. MUDr. M. Fucik.

(GASTROENTEROLOGY diag)

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Manufacturing of pulp from chemically barked wood. p.100. (Papir A Celulosa, Vol. 12, No. 5, May 1957, Praha, Czechoslovakia)

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HAMAK, J.

SCHARCK

Periodicula: ORBERDAMANIA CARREL DE Vel. 4, No. 6, 1 and

SATUT, R.; HARCK, J. National conference on the pituitary gland
p. 509.

Lonthly List of Boot European Accordions(MAI) IC, Vol. 8, No. 5,

Kay 1959, Unclass.

JIMDRAK, F.; JIMDRAKOVA. E.; PRAZAK, J.; ZEMAN, G.

Epidemic jaundice in Kladno in 1952. Cas. lek. cesk. 92 no.41-42: 1121-1128 16 Oct 1953. (CLML 25:4)

1. Of the Internal Department (Head--F. Jindrak, M.D.) of OUNZ, Kladno.

PRAZAK, Jan. Prim. MUDr

Therapy of tumors of the urinary bladder with special reference to therapy with contact x-irradiation. Rozhl.chir. 34 no.1-2:130-138 Feb 155.

1. Z urologickeho oddeleni KUNZ v Plzni
(BLADDER, neoplasms
ther., contact x-ray)
(RADIOTHERAPY, in various diseases
bladder cancer, contact x-ray)

PRAZAK, J.

Slovak folk architecture; its present state, importance, and research.

p. 512 (SLOVENSKY NORODOPIS) Vol. 5, no. 5, 1957, Bratislava, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 3, March 1958

PRAZAK, J.

Prazak, J. 50 seconds over Strahov; a television report which was not broadcast. p.364.

No.16, Aug. 1955 KRIDLA VIASTI Praha, Czechoslovakia

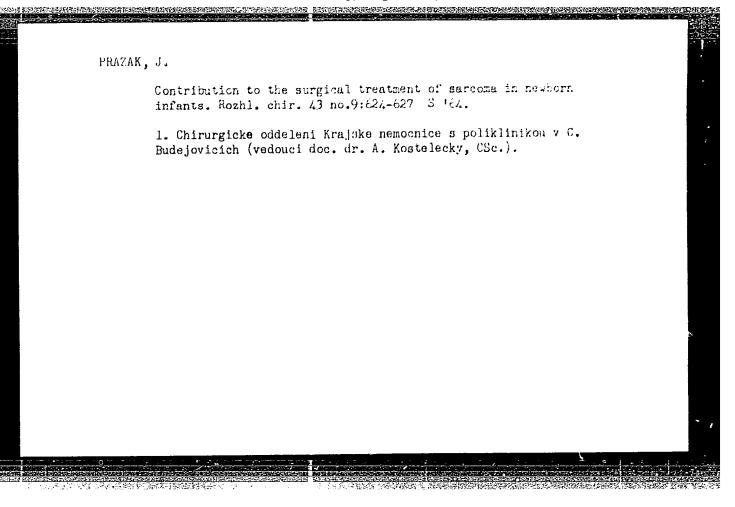
SO: Monthly List of East European Accessions, (FFAL), IC, Vol. 5, No. 2 February, 1956

PRAZAK, J.

At the air border.

p. 412
No. 18, Sept. 1955
KRIDLA VLASTI
Praha, Czechoslovakia

SO: Monthly List of East European Accessions, (EEAL), IC, Vol. 5, no. 2
February 1956, Uncl.



PRAZAF	K, Jaroslav: Shibb, Vdensk	
	High frequency ion source. Jederna energie 10 no.12:446 1 164.	
	1. Institute of the bar kenearch of the Gzenneshauk barees, Rez.	

TRNKA, Antonin, inz.; PICHLIK, Vaclav, inz.; PRAZAK, Josef, inz.; ROULE, M. inz.; MIKSOVSKY, M., inz.; MEDVED, B., inz.

Technical economic mapping and the development of technology. Geod kart obzor 10 no.9/10:222-226 0 '64

ROTREKL, Viktor; URBAN, Jan; PRAZAK, Josef

Clinical course of complications observed during the influenza epidemic in the spring of 1959. Cas.lek.cesk. 99 no.47:1469-1474 18 N '60.

1. I. klinika chorob vnitrnich fakulty detskeha lekarstvi KU v Praze, prednosta prof. dr. VI. Jedlicka.
(INFLUENZA compl)

URBAN, J.; ROTREKL, V.; PRAZAK, J.

Influenzal cardiopathies. Cas.lek.cesk. 99 no.47:1474-1479 18 N'60.

1. I. interni klinika FDL KU v Praze, prednosta prof. dr. Vladimir Jedlicka.

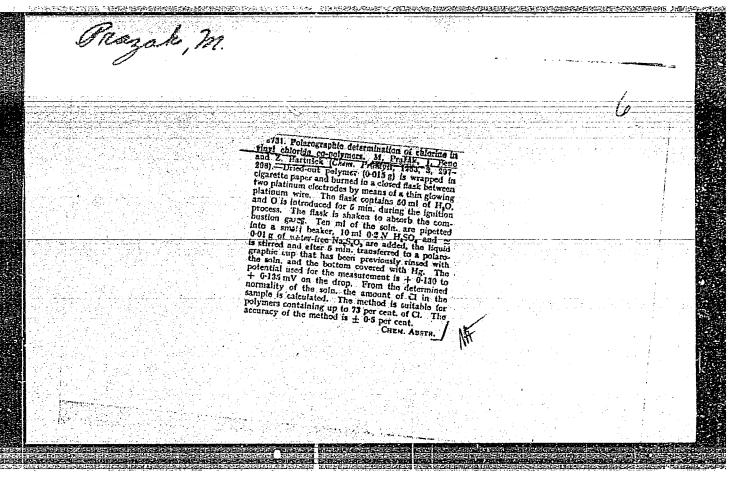
(INFLUENZA compl) (HEART DISEASE etiol)

FUCIK, M.; BAZIKA, V.; NOVAK, S.; PRAZAK, J.; SKOREPA, J.

On the problem of bleeding from gastrointestinal diverticula. Cas. lek.cesk 100 no.22:692-695 2 Je '61.

1. IV. vnitrni klinika KU v Praze, prednosta prof. MUDr. Mojmir Fucik.

(HEMORRHAGE GASTROINTESTINAL etiol)
(DIVERTICULOSIS compl)

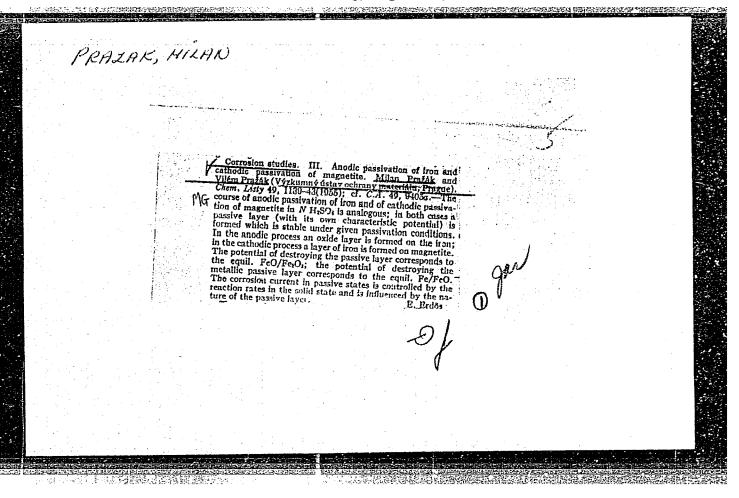


PRAZAK, M.	
	2561. A pergrator of saw-dooth current wave form of thery low frequency. M. Paszáki. Skilo gainals Obzor.
	15, No. 11, 528-30 (1954) If Creh. The device consists of a pentode with an RC network in its crid and an electromagnetic relay in its anode; the grid condenser is discharged by the relay
	contacts upon the anode current reaching its maximum value. The generator produces savenoth waveforms of 0.5 see to 5 min duration, the current
	rising linearly from zero to ~70 mA. The linearity of the waveform is improved by supplying the pentode from an inductor-input rectifier circuit. The device can also be used as a constant-current source.
	R. S. SIDGROWICZ
	and the state of t

PRAZAK, M.; PRAZAK, V.

Corrosion studies. II. Effect of electrical properties of the electrode on potential measurements during interrupted current polarization. p. 294. CHEMICKE LISTY Vol. 49, No. 3, Mar. 1955

SO::Monthly East European Accession (EEAL) LC, Vol. 4, No. 9, Sept. 1955 Uncl.



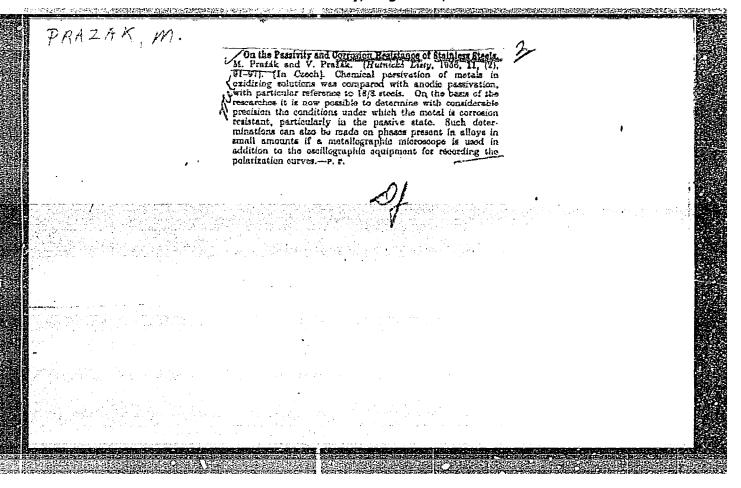
Frazak, M.

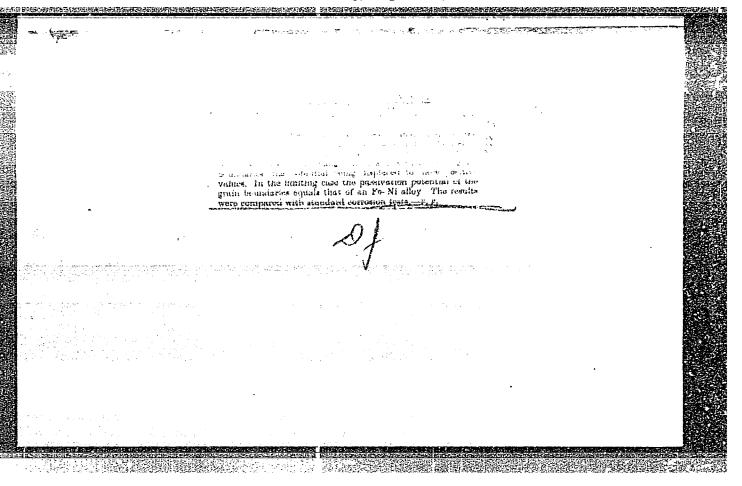
Passivity and corrosion resistivity of stainless steel. p. 65. HUTNICKE LISTY. (Ministerstvo hutniho prumyslu a rudnych dolu) Brnol Vol. 11, no. 2, Feb. 1956.

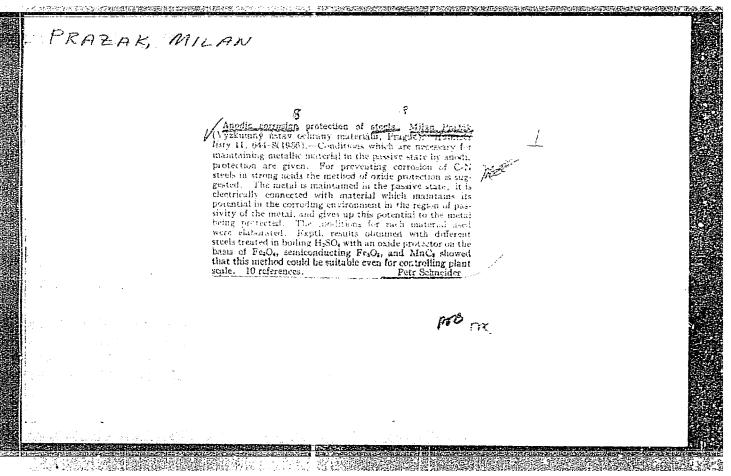
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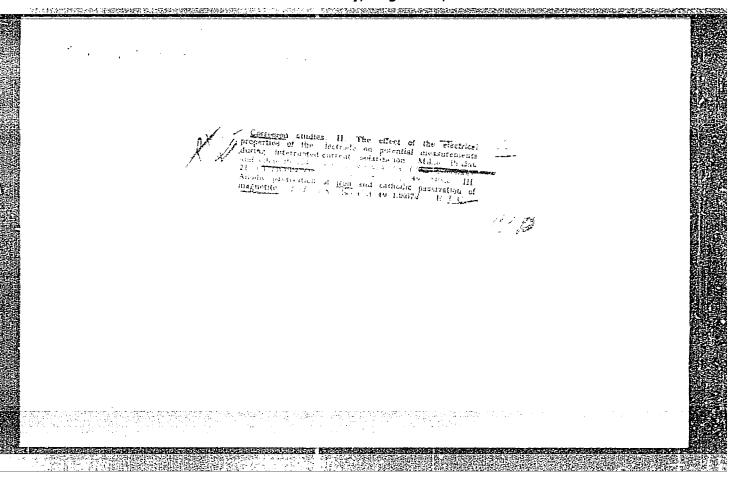


PRAZAF, E.

The potentiostat and certain problems of potential polarization of fixed electrodes. p. 237.

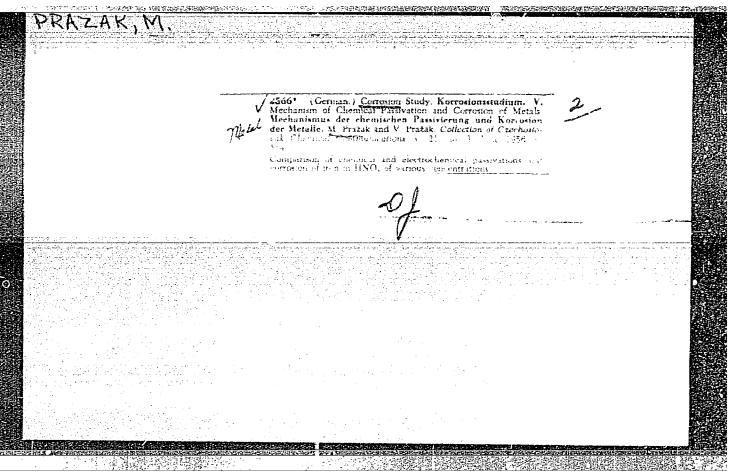
Vcl. 17, no. 4, Apr. 1956 RUDY Fraha, Czechoslovakia

Source: East European Accession List. Library of Congress Vol. 5, No. 3, August 1956



"APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001342



Replacement of skull defects with dead bone. Rozhl. chir.
35 no.11:637-643 Oct 56.

1. I. chirurgicke oddeleni UVN Praha, chirurg. odd. ON C.
Budejovice.
(GRANIUM, surg.
plastic, dead bone implants (Cs))
(BONM AND BONES, transpl.
cranial dead bone implants (Cs))

Prazak, M. CHEMICKE LISTY Vol. 50(80), No. 1 January, 1956	6000
Corresion Studes V.: The Mechanism of the Chemical Fassivation and the Corresion of Metals. The chemical and electrochemical passivation and the corresion of iron in nitric acid solutions of different concentration were compared. A diagram expressing acid solutions of different concentration was constructed. Results obtained the corresion behaviour of iron in this medium was constructed. Results obtained snowed that there is no different corresion reactions. The course of the of the chemical and electrochemical corresion reactions. The course of the chemical corresion reaction can be described quantitatively by means of partial currents, i.g. in electrochemical terms. By M. Frazak & V. Frazak	

PRAZAK, MI	CAN.
	Examination of fergins & transformation in stainless steels 2 (4E2 c) with higher disning Content. Vacious Chair and Milan Pratak (Vyakuthiy datay materiali G, V. Akhippa,
	controlled potential, the transformation of & ferrite in 18/0/ Ti steel was exame, by means of optical and electron microscopy. The ferrite transformation develops the following reaction: \$\times \text{carbides} + \times + \times \text{.} The presence of a phase
	in the structure of steel reduces the capability of steel for secondary passivation and changes the nature of potential-dependent polarization curves in the transpassive region, 20 references. Petr Schueider
	my RE

INHZAKIL

Prazak, M.; Novotnv, J.

Prazak, M.; Novotnv, J. Modernization of universal grinding machines of the U type. p. δl .

Vol. 5, no. 2, Feb. 1957 STROJIRENSKA VYROBA TOCHHOLOGY Czechoslovakia

So: East European Accessions, Vol. 6, May 1957 No. 5

PRAZAK, M.; CIBAL, V.; HCLIDKA, M.

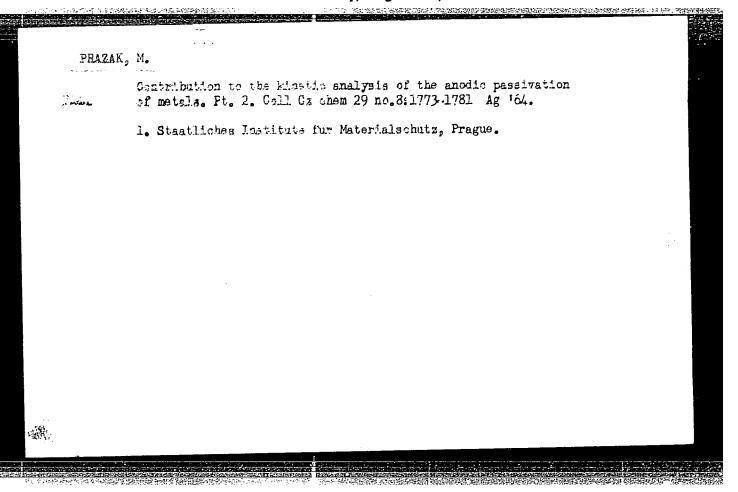
"Differentiation of chases in metallographic etching." 1. Electrolytic etching with a controlled potential. In German. p. 9.

COLLECTION OF CZECHOSLOVAK CHEMICAL COMMUNICATIONS, Praca, Czechoslovakia, Vol. 24, No. 1, Jan. 1959.

Monthly List of East European Accessions (MEAI), LC, VCL. 8, No. 6, Sept.59 Unclassified

EPF(c)/EWA(d)/EWP(t)/EWP(z)/EWP(b) L 59608-65 cz/0034/64/000/008/0562/0566 ACCESSION NR: AF5020424 AUTHOR: Franz, Ferdinand (Engineer, Doctor, Candidate of sciences); Stefec, Rudolf (Engineer); Prazak, Milan (Engineer, Candidate of sciences) TITLE: Use of the polarograph for the recording of a potentiodynamic curves Hutnicke listy, no. 8, 1964, 562-566 TOPIC TAGS: metal corrosion, polarography, potentiometer, nickel, stainless steel, ferritic steel, pearlitic steel, austenitic steel ABSTRACT: The potentiostat is used to study corrosion of metals, and is rather expensive. Classical potentiostate are simpler and cheaper, and the authors describe their use in the study of metal corrosion. The authors used a polarograph for the corrosion studies, and discuss the necessary modifications of the instrument when used for this purpose; the polarograph thus became a classical potentiostat. Results obtained with instrument in studies on stainless ferritic pearlitic, austenitic steels, and nickel, are described. Orig. art. has: 15 figures, 1 table, 5 formulas. Card 1/25

ACCESSION NR: AP5020424								
ASSOCIATION: Katedra chemicke technologie kovu VSCHT, Prague (Department of Chemical Technology of Metals <u>VSCHT</u>); Statul vyzkumny ustav ochrany materialu G. V. Akimova, Prague (State Research Institut for the Protection of Materials)								
SUBMITTED: 00	ENCL:	00	SUP CODE:	HM, EC				
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L 8388-65 EWT(m)/EWP(q)/EWP(b) Pad ASD(m)-3 JD/HW/JG/WB

ACCESSION HR: AP4041521

2/0065/64/000/003/0289/0302

AUTHOR: Cihal, Vladimir (Chigal, Vladimir); Mechura, Jaroslav 6 (Mekhura, Yaroslav); Prazak, Milan (Prashak, Kilan)

TITLE: The effect of chromium, molybdenum, tungston, and iron on the electrochemical and corrosive properties of Mi-alloys in the active state

SOURCE: Kovove materialy, no. 3, 1964, 289-302

TOPIC TAGS: nickel alloy, binary nickel alloy, nickel molybdenum alloy, nickel copper alloy, nickel chromium alloy, nickel tungsten alloy, nickel iron alloy, corrosion resistance, alloy corrosion resistance, nickel alloy corrosion resistance

ABSTRACT: The effect of chromium (2.55-21.14%), molybdenum (2.78-30.60%), tungsten (0.84-11.12%), and tron (6.38-42.70%) on the electrochemical and corrosion behavior of nickel in the active state has been investigated. The alloys were melted in a high-frequency induction furnace and were annealed at 1150C for 30 min and water quenched. Corrosion tests were conducted in boiling diluted

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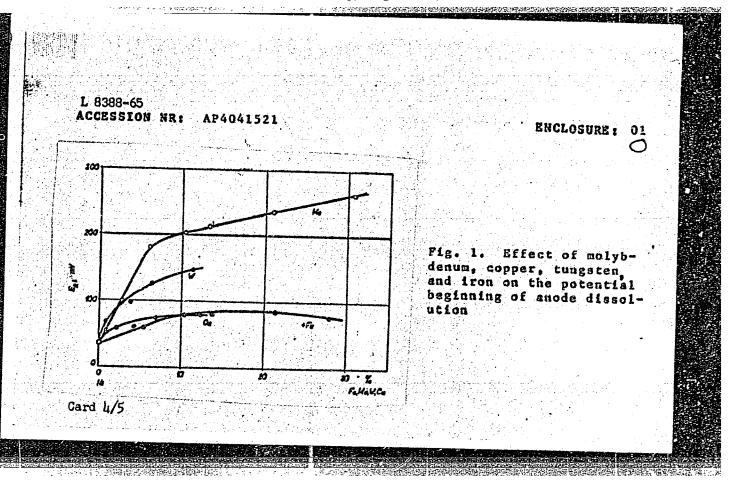
hydrochloric acid. The width of the immunity zone and the potential of overvoltage Er were determined in 2n HCL + 0.01% KCNS. Holybdenum and copper were found the most beneficial alloying elements. They increase the corrosion resistance of nickel in the active state, raise the overvoltage, and widen the immunity zone (see Figs. 162 of the Enclosure). Tungsten extends the zone of immunity and increases the overpotential, but somewhat less than does molybdenum. However, the results of corrosion tests of nickel-tungsten alloys cannot be considered reliable. Chromium and iron lower the corrosion resistance of nickel in the active state. The positive effect of molybdenum confirms the importance of this element for the development of alloys of the NiMo30 type. Orig. art. has: 8 figures and

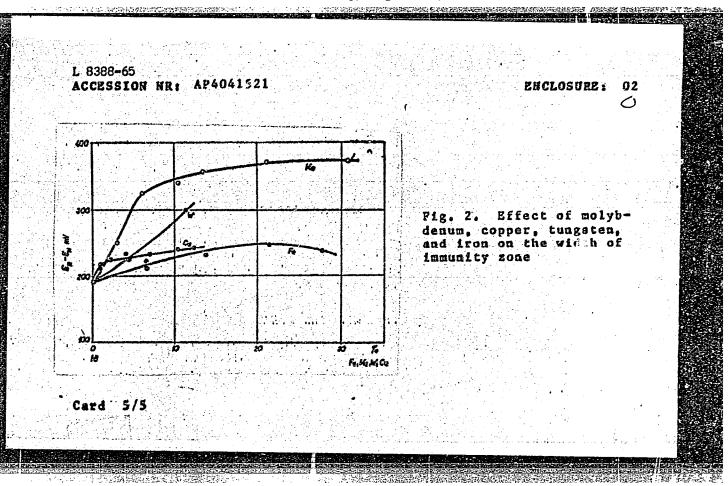
ASSOCIATION: Statui vyzkumny wstavochrany materialu G. V. Akimova, Prague (State Research Institute for Haterial Protection) (State Research Institute for Haterial

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

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PRAZAK, M.

Contribution to the examination of kinetics of anodic passivation of metals. Coll Cz Chem 29 no.1:1-9 Ja*64

1. Staatliches Forschungsinstitut für Materialschutz, Prag.

PRAZAK, M.; PLACAK, B.; BARTAK.L.

Posttraumatic sequelae after gunshot wounds of the lungs. Rozh. chir. 42 no.11:810-15 N'63.

Experiences with the treatment of persistent hemothorax in gunshot wounds of the lung. 816-822

Early surgical treatment of gunshot wounds of the lungs. 822-830

1. Oddeleni pro chirurgii hrudni a brisni UVN v Praze; vedouci: doc.dr. B. Placak.

PRAZAK,M.; PLACAK,B.

Analysis of operations with the use of extracorporeal circulation. Rozh. chir. 42 no.11:789-794 N.63.

1. Oddeleni pro chirurgii hrudni a brisni UVN v Praze; vedouci: doc.dr.B.Placak.

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PLACAK, B.; PRAZAK, M.; BURDA, J.; KALAB, J.; BARTAK, L.

Analysis of our 1st 100 patients surgically treated for mitral stenosis. Rozh. chir. 42 no.11:764-774 N.63.

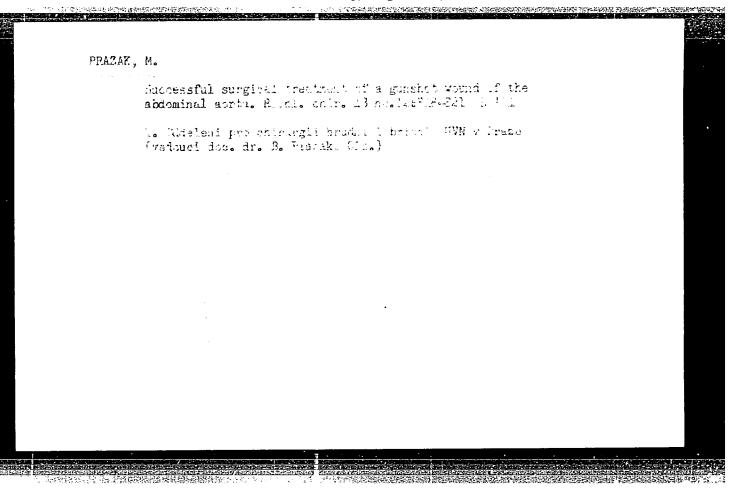
1. Oddeleni pro chirurgii hrudni a brisni UVN v Praze; vedouci: doc.dr. B.Placak.

PRAZAK, M.; PLACAK, B.; KALAB, J.

Our experiences with the Crafoord-Seming apparatus for extracorporeal circulation. Rozh. chir. 42 no.11:780-784 N.63.

1. Oddeleni pro chirurgii hrudni a brisni UVN v Praze; vedouci: doc.dr.B.Placak.

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342



VYKLICKY, Miloslav; LOBL, Karel; KABRHEL, Adolf; TUMA, Hanus; CIHAL, Vladimir; PRAZAK, Milan

Effect of molybdenum and copper on the properties of chrome stainless steel. Hut listy 16 no.8:553-560 Ag '61.

1. Statni vyzkumny ustav materialu a technologie, Praha (for Vyklicky, Lobl, Kabrhel and Tuma). 2. Statni vyzkumny ustav ochrany materialu G.V. Akimova, Praha (for Cihal and Prazak).

Z/032/63/013/004/005/011 E073/E183

AUTHOR:

Pražák. M.

TITLE:

Influence of chromium, nickel, molybdenum, copper and tungsten on the corrosion and mechanical properties of austenitic stainless steels

PERIODICAL: Strojírenství, v.13, no.4, 1963, 315

TEXT: The quantitative relations between the concentration of the alloying elements Cr, Ni, Mo, Cu and W and their influence on the corrosion resistance of steels in acids are investigated. Additions of nickel are beneficial in the 16-20% range. Up to 5% Mo added on its own does not improve the resistance of chromium-nickel steels to corrosion in hot H₂SO₄ solutions of higher concentrations. However, above 5% it brings about an appreciable improvement. In combination with copper (1 to 3% Cu), Mo is effective from concentrations of 1% onwards. Tungsten in quantities of 1 to 2% appreciably reduces corrosion in not too highly concentrated acids. Report Z-30/61, SVUOM, Prague. [Abstracter's note: Complete translation.]

Card 1/1

POBORIL, F., inz., dr.; ZEZULOVA, M., inz.; PRAZAK, M., inz.

Corrosion properties of austenitic nickel and molybdenum alloyed chrome-manganese of stainless steel. Hut listy 17 no.10:705-712 0 '62.

1. Vyzkumny ustav hutnictvi zeleza, Praha (for Poboril and Zezulova). 2. Statni vyzkumny ustav ochrany materialu G.V. Akimova, Praha (for Prazak).

S/276/63/000/001/009/028 A006/A101

AUTHORS:

Beránek, Eduard, Pražák, Milan, Černý, Miroslav

TITLE:

Protection of metals against the effects of wear and corrosion

caused by suspensions in aggressive media

PERIODICAL:

Referativnyy zhurnal, Tekhnologiya mashinostroyeniya, no. 1, 1963, 56, abstract 1B295P (Czechosl. Patent, ol. 48 d,5, no. 100943, of

September 15, 1961)

TEXT: A patent is delivered for a method protecting against failure of internal surfaces of metal pipes, through which aggressive liquids with suspended solid particles flow. It is recommended to use special admixtures, corrosion inhibitors and cathodic protection.

B. Yakovlev

[Abstracter's note: Complete translation]

Card 1/1

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KOLOMB'YE, L. (Frantsiya); PLUGARZH, Ya. [Pluhar, J.] (Chekhoslovakiya);
VYKLITSKIY, M. (Chekhoslovakiya); PRAZHAK, M. [Prazak, M.]
(Chakhoslovakiya); CHIGAL, V.; KHEYSKANEN, K. (Finiyandiya);
SKIN, K.

Reports made at the Symposium on Stainless Steel. Metalloved.
i term. obr. met. no.5:51-54 My '62. (MIRA 15:5)
(Steel, Stainless—Congresses)
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Z/034/62/000/010/001/002 E073/E335

18 1130

AUTHORS:

Poboril, F., Engineer Doctor, Zezulová, M. and

Prazak, M., Engineers

Corrosion properties of austenitic stainless TITLE:

nickel- and molybdenum-alloyed chromium-manganese

steels

Hutnické listy, no. 10, 1962, 705 - 712 PERIODICAL:

The results of earlier investigations with austenitic CrMn and CrMnNi steels with high nitrogen contents have provided information on the interrelation between the composition of the steel, solubility of nitrogen in the liquid stoel and the rate of occurrence of gas bubbles and shrinkage cavities in cast ingots. These investigations enabled evolving a technology of smelting and casting austenitic Cr-Mn-N steels so as to obtain ingots free of bubbles and inadmissible shrinkage cavities. The object of the experiments described in this paper was to study the influence of additions of Ni and Mo on the corrosion properties of steel of the basic type. 10Cr16Mn15N, containing approximately up to 0.1% C, 15% Mn, 16% Cr and maximum 0.40% N. Card 1/3

Corrosion properties

Z/034/62/000/010/001/002 E073/E335

The laboratory experiments were carried out with two series of heats, one produced in a 100-kg high-frequency furnace, cast into ingots and formed by forging and rolling into 20-mm diameter rods; the second series was produced in an 6-kg high-frequency furnace cast into 6-kg ingots and forged into 20-mm diameter rod. In both series the rods were austenized at 1 050 to 1 070 °C for 1 hour, followed by cooling in air. These experiments revealed that the corrosion resistance in the passive state can be improved by alloying with 0.5% No and still more by alloying with 2% Ni. Corrosion tests in 10% HCl at 20 °C revealed that this conclusion also applied to the active state. The laboratory experiments were followed by experiments on industrial heats of the following compositions (%):

Design CSN

```
designation C
                         Mn
                                Si
                                     Cr
                                          Νi
                                               Mo
                                                    H
17470
                                                          P
                                                               S
        N 7470
                   0.05
                         14.0 max 16.0
                                              0.30 0.32
                                                        max. max.
                   0.12
                         17.0 1.00 19.0
                                              0.70 0.42 0.00 0.055
17471
        N 7471
                         14.0 0.60 16.0 1.20
                   0.05
                                                   0.32 max. max.
                   0.12
                         17.0 1.50 19.0 2.00
                                                   0.42 0.060 0.035
Card 2/3
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Corrosion properties

Z/034/62/000/010/001/002 E073/E335

The corresion-resistance in 65% boiling nitric acid of both these steels was found to be comprable with the resistance-tocorrosion of 17% Cr stainless steel ČSN 17041 but the passivation ability of these new steels, expressed quantitatively by the critical passivation current density, was higher and this was very favourable for the resistance-to-corrosion in slightly oxidising media. Both these developed steels are practically equivalent as regards resistance-to-corrosion. However, from the point of view of production technology, particularly as regards re-using scrap, steel 17471 was found to be more favourable. The elongation, contraction and impact-strength of these steels were virtually the same as those of austenitic CrNi steels but their yield point was about 100% higher. Full data are given on the mechanical and corrosion properties of the tested new steels. The production of steel 17471 is at present being introduced at the following Czech plants: VŽKG; TŽ VŘSR sheet mills and VTZ. There are 4 figures and 8 tables.

ASSOCIATIONS: VÚHŽ, Prague; SVUOM G.V. Akimova, Prague.

SUBMITTED: February 21, 1962

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s/081/62/000/014/012/039 B166/B144

Pražák M., Spaliný, J.

AUTHORS: TITLE:

Corrosion study. XXIV. The influence of temperature on the

passivation of corrosion-resistant steels

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 14, 1962, 341 - 342, abstract 141177 (Collect. Czechosl. Chem. Communs, v. 26,

no. 11, 1961, 2828 - 2837)

THAT: Temperature dependence of the corrosion rate was studied in the regions of the critical current of passivation, passivity, transpassivation and secondary passivity, the range being 20-210 C and one of the corrosion-resi. ant steels having the composition (in%): C 0.1, Cr 18, Ni 9, the other: C 0.1, Cr 18, Ni 10, Mo 2, The tests were made in a 1 N solution of H2SO4 with 0.01% KCNS added for activation. Tests atsolution

temperatures above boiling point were carried out in autoclaves. The potentiostatic method was used. It is shown that with increasing temperature the region of immunity becomes narrower whilst the critical passiva-Card 1/2

Corrosion study. ...

S/081/62/000/014/012/039 B166/B144

tion current and the corrosion current in the passive and transpassive region increase. The passivation potential does not vary. The corrosion rate as a function of temperature can be expressed by the Arrhenius' equation. Experimental values for the dependence of the critical passivation current, maximum corrosion current in the transpassive state, minimum corrosion current in the region of secondary passivity in the 20 - 90°C range, and corrosion current in the passive state close to 200°C are all expressed in coordinates I - 1000/T by straight lines. Corrosion in the passive state increase by a factor of 10°7 with increase in temperature from

to 210°C. The stability of the passive state and the tendency to passivation diminish with increase in temperature. The efficiency of passivating inhibitors, for example Fe37 salts, is greatly reduced. For communication XXIII see RZhKhim, 1961, 8I153. [Abstracter's note:

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37476 \$/129/62/000/005/010/011 E073/E335

18.1130

Vyklický, M., Pražák, M., Číhal, V. (Czechoslovakia) AUTHORS:

Influence of alloying elements on the properties of

austenitic stainless steels TITLE:

Metallovedeniye i termicheskaya obrabotka metallov, PERIODICAL: no. 5, 1962, 52 - 53

By analyzing the potentiodynamic polarization curves the influence of molybdenum, copper, tungsten and silicon was investigated (individually and in various combinations) on the corrosion-resistance of Cr-Ni austenitic stainless steels, containing 18 - 22% Cr and 21 - 50% Ni. The polarization curves were recorded at room temperature for a 1 mole solution of hydrochloric acid with 0.01% KCNS added. The following were applied as a criterion of the resistance-to-corrosion: the width of the zone of immunity and the magnitude of the electrochemical potential. It was found that an increase in the nickel content within the investigated limits did not have an appreciable influence on the active state of type X20'm5 (Kh20N5) steels,

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Influence of

alloyed with silicon, molybdenum and copper. The positive electrochemical potential increased with increasing contents of molybdenum and the range of immunity broadened. Copper had the same influence but to a somewhat lesser extent. Tungsten had no influence on the immunity range and increased only slightly the potential of the active range. After laboratory investigations, experimental heats were produced of the steel X24-20 (Kh24N20), which were alloyed with molybdenum and copper. Specimens of these heats were tested for corrosion-resistance in hydrochloric acid for durations of 480 hours. The steel alloyed with 5% Mo and 3.5% Cu showed the highest resistance-to-corrosion; it was higher than that of the steel type X21 38757 (Kh21N38M5T). Sheets 1 and 3 mm thick were produced from the new steel and tested in 14 different media, including hydrochloric and sulphuric acids, at various concentrations and temperatures. The resistance-to-corrosion of

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this steel in these media was considerably higher than that of the steel $\times 10-9$ (Kh18N9M2) and slightly better than that of the steel $\times 21-38-2$ (Kh2lN3SM2T). The new steel is very stable against intercrystallite corrosion.

Abstracter's note: this is a complete translation.

4

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Influence of

SIDAK, Zdenek, inz.; KUCERA, Miloslav, MUDr.; PRAZAK, Milan, MUDr.; ZEMAN, Bronislav, MUDr.

A miniature cardiostimulator. Sdel tech 9 no.11:414-416 N'61.

Z/034/62/000/005/004/007 E073/E535

18.1110

AUTHORS: Pražák, M., Engineer, Cihal, Vl., Engineer, Candidate

of Science and Mechura, J., Engineer

TITLE:

Influence of chromium, nickel, molybdenum, copper and

tungsten on the electrochemical, corrosion and

mechanical properties of austenitic stainless steels

PERTODICAL: Hutnické listy, no.5, 1962, 369

TEXT: The report contains data for formulating [developing] highly corrosion-resistant austenitic steels for the chemical industry with economic contents of alloying elements which can be used as an equivalent from the corrosion point of view, of the steel CSN N7 252. On the basis of potentiostatic and corrosion tests, the quantitative relations were determined between the contents of the alloying elements and their influence on the corrosion properties of the steels in H_2SO_h and HCl media. It was found that the economic nickel content is in the range of 16 to 203. In more concentrated acids in the hot state molybdenum has a favourable effect only from contents of 5% onwards; however, in combination with copper (1 to 3%) molybdenum has a favourable Card 1/2

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Influence of chromium, nickel ... Z/034/62/000/005/004/007 E075/E535

effect even from 1% onwards. The very favourable effect of copper from the point of view of corrosion was confirmed. From the point of view of the mechanical properties of the steel at normal temperature, copper has an unfavourable effect from contents of 2.2% onwards and on hot forming from 2.5% onwards. On the example of experimental heats of the steels types 1Cr18Ni16Mo3Cu2 and 1Cr16Ni16Mo8 it was verified that in combination with data on the structural, technological and price effects of alloying elements, the established relations can be applied as a basis for developing economical types of corrosion-resistant steels with predetermined corrosion properties.

Research Report SVÚOM No.30/61
25 pages, 20 figures, 7 tables.

[Abstractor's note: Complete translation]

Card 2/2

Z/032/62/012/004/002/007 E073/E535

/ 1/1/30 AUTHORS:

Cihal, V., Prazak, M. and Měchura, J.

TITLE:

Influence of some alloying elements on the properties

of austenitic stainless steels

PERIODICAL: Strojirenstvi, v.12, no.4, 1962, 283-287

For estimating the corrosion properties of various materials, potential polarization curves were used, recorded by means of a potentiostat in accordance with a method published earlier by the authors. So far, the results obtained by means of this method cannot be transformed directly into weight losses in ordinary corrosion tests and therefore the method is suitable only The influence of increasing quantities as a basis for comparison. of copper, molybdenum, tungsten and nickel in steels containing 18% Cr and 9 to 12% Ni on the characteristic values of the polarization curves in the range of immunity and activitys on the resistance to corrosion, the mechanical properties and ductility were investigated on material produced in a 10 kg capacity highfrequency laboratory furnace. 2 kg ingots were pre-heated to 500-600°C for one hour and then forged by means of a steam hammer Card 1/2

Influence of some alloying ...

z/032/62/012/004/002/007 E073/E535

into 18 to 20 mm diameter rods. In addition to measuring the electrochemical values, corrosion tests were made on the same steels using a 10% solution of HCl at 20°C, a 10% boiling $\rm H_2SO_4$ and concentrated nitric acid at boiling temperature. The authors proved a definite correlation between the measured electrochemical values and the corrosion properties of the tested steel. Molybdenum proved to be a favourable element except as regards resistance to oxiding agents. Copper and nickel have a positive influence on the values characterizing the resistance to corrosion in the active state. Tungsten increases slightly the tendency of steel to become passive and in some cases also increases the resistance in the active state. Of interest is the considerable influence of tungsten on suppressing the corrosion current in the passive state. Within the investigated concentrations, molybdenum and tungsten showed a considerable influence on the mechanical properties, whilst copper had a considerable influence on the hot forming properties. There are 12 figures and 1 table.

ASSOCIATION: SVUOM, Prague

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